

Patent
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Patents Cited by Inventor: 0
Patents Cited by Examiner: 9

Citing Patents: 0

Articles Cited by Inventor: 0
Articles Cited by Examiner: 1

Patent Number(s):

WO200032677-A [ORIGINAL DOCUMENT](#); EP1141078-A [ORIGINAL DOCUMENT](#); WO200032677-A1 [ORIGINAL DOCUMENT](#); FR2786494-A1; AU200013908-A; EP1141078-A1 [ORIGINAL DOCUMENT](#); BR9916997-A; KR2001093117-A; CN1332762-A; JP2002531614-W; MX2001005279-A1

Title:

Method for making poly(ethylene terephthalate)/poly(ethylene isophthalate) copolyester containing at least 8% isophthalic units in which granules do not stick together during crystallization and post-condensation in solid phase

Inventor Name(s):

CANOVA T

Patent Assignee Name(s) and Code(s):

TERGAL FIBRES (TERG-Non-standard)
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Derwent Primary Accession Number:

2000-422959 [63]

Abstract:

NOVELTY - Method for making poly(ethylene terephthalate)/poly(ethylene isophthalate) copolyester containing at least 8% isophthalic units comprises a step of crystallization by contacting with a liquid medium which is not a solvent for the polymer or by successive treatment in two crystallizers.

USE - In making poly(ethylene terephthalate)/poly(ethylene isophthalate) copolymers for use in textiles and thermally formed materials such as bottles.

ADVANTAGE - Granules do not stick together during steps of crystallisation and post-condensation in solid phase; and they have increased viscosity index.

DETAILED DESCRIPTION - Method for making poly(ethylene terephthalate)/poly(ethylene isophthalate) copolyester containing at least 8% isophthalic units comprises the following steps:

(a) esterification or transesterification with ethylene glycol of mixture containing terephthalic acid or methyl terephthalate and at least 8 wt. % isophthalic acid or methyl isophthalate;

(b) polymerizing esterified product in molten phase;

(c) solidification and granulation;

(d) crystallization by contacting with a liquid medium which is not a solvent for the polymer or by successive treatment in two crystallizers, the first comprising means for heating granules and a means for imposing on said granules a uniform retention time inside and the second comprising means for producing a bed of granules fluidized by hot gas stream; and

(e) solid post-condensation of crystallized granules.

International Patent Classification:

C08G-063/80; C08G-063/181; C08G-063/88

Derwent Class:

A23 (Polyamides, polyesters, polycarbonates, alkyds); E19 (Other organic compounds general - unknown structure, mixtures); A92 (Packaging and containers, ropes, nets)

Derwent Manual Code(s):

A05-E04A; A10-D05; E07-A04; E10-D03C; E10-E04L1; E10-E04L2; E10-E04M1; E10-F02C; E10-G03D; E10-H04C3; E10-H04C4; E10-H04C5; E10-J02B4

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WO200032677-A					
EP1141078-A					
WO200032677-A1	08 Jun 2000	C08G-063/80	200036	Pages: 17	French
FR2786494-A1	02 Jun 2000	C08G-063/181	200036		
AU200013908-A	19 Jun 2000	C08G-063/80	200044		
EP1141078-A1	10 Oct 2001		200167		French
BR9916997-A	15 Jan 2002		200214		
KR2001093117-A	27 Oct 2001		200223		
CN1332762-A	23 Jan 2002		200231		
JP2002531614-W	24 Sep 2002		200278	Pages: 14	
MX2001005279-A1	01 Apr 2002		200363		

Application Details and Date:

FR2786494-A1	FR015161	27 Nov 1998
WO200032677-A1	WOFR02932	26 Nov 1999
AU200013908-A	AU013908	26 Nov 1999
BR9916997-A	BR016997	26 Nov 1999
CN1332762-A	CN815109	26 Nov 1999
EP1141078-A1	EP973045	26 Nov 1999
JP2002531614-W	JP585315	26 Nov 1999
MX2001005279-A1	MX005279	25 May 2001
KR2001093117-A	KR706654	28 May 2001

Further Application Details:

AU200013908-A	Based on	Patent	WO200032677
EP1141078-A1	Based on	Patent	WO200032677
EP1141078-A1	PCT application	Application	WOFR02932
BR9916997-A	Based on	Patent	WO200032677
BR9916997-A	PCT application	Application	WOFR02932
JP2002531614-W	Based on	Patent	WO200032677
JP2002531614-W	PCT application	Application	WOFR02932
MX2001005279-A1	Based on	Patent	WO200032677
MX2001005279-A1	PCT application	Application	WOFR02932

Priority Application Information and Date:

FR015161 27 Nov 1998

Designated States

EP1141078-A1

(Regional): AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV; MC; MK; NL; PT; RO; SE; SI

WO200032677-A1

(National): AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CR; CU; CZ; DE; DK; DM; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW

WO200032677-A1

(Regional): AT; BE; CH; CY; DE; DK; EA; ES; FI; FR; GB; GH; GM; GR; IE; IT; KE; LS; LU; MC; MW; NL; OA; PT; SD; SE; SL; SZ; TZ; UG; ZW

Field of Search:

X

Compound(s):

DCR Number	Role	DCR Number	Role	DCR Number	Role
<u>27-0-0-0</u>	CL;(U)	<u>30-0-0-0</u>	CL;(U)	<u>20-0-0-0</u>	CL;(U)
<u>22-0-0-0</u>	CL;(U)	<u>26-0-0-0</u>	CL;(U)	<u>5-0-0-0</u>	CL;(U)
<u>32-0-0-0</u>	CL;(U)	<u>8-0-0-0</u>	CL;(U)	<u>23-0-0-0</u>	CL;(U)
<u>400-0-0-0</u>	CL;(U)	<u>15-0-0-0</u>	CL;(U)	<u>64-0-3-0</u>	(U)
<u>6-0-0-0</u>	CL;(U)	<u>839-0-0-0</u>	CL;(U)	<u>980-0-0-0</u>	CL;(U)
<u>50-0-0-0</u>	CL;(U)	<u>1002-0-0-0</u>	CL;(U)		

Ring Index Number(s):

00263

Derwent Registry Number(s):

0345-U	1057-U	0273-U	0101-U	0862-U	0272-U	0369-U
0306-U	0278-U	1084-U	0270-U	0245-U	0441-U	1083-U
0714-U	0438-U					

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